

17456

16117

3 Hours / 100 Marks

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
(2) Answer each next main Question on a new page.
(3) Figures to the right indicate full marks.
(4) Use of Non-programmable Electronic Pocket Calculator is permissible.
(5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. **Attempt any FIVE of the following:** **20**
- a) Give the brand classification of measurement.
 - b) Compare accuracy and precision.
 - c) Explain the method of using heat triangles for straightning.
 - d) State any four reasons for stiffening.
 - e) Define composite material. Give its classification.
 - f) State the necessity of cleaning and coating.
 - g) Write down the importance of plant layout.
 - h) Draw the process of marking holes in angle section.

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- 2. Attempt any FOUR of the following:** **16**
- a) List the tools used in marking process.
 - b) Explain hot shrinking method used for straightning.
 - c) State the use of applied stiffners.
 - d) State any four applications of composites.
 - e) Explain thermal method of surface cleaning.
 - f) What is dynamics of plant layout.
- 3. Attempt any TWO of the following:** **16**
- a) Draw and explain the method of marking out holes for flange.
 - b) List the types of plant layout. Explain any one.
 - c) List the different processor used for roundness testing. Explain testing by using V-block.
- 4. Attempt any FOUR of the following:** **16**
- a) What is template? State the need of template.
 - b) Explain any one shop method of drawing an ellipse.
 - c) State the use of chalk line for marking a long straight line.
 - d) Draw the diagrams of hot straightning for structural sections.
 - e) State the necessity of web stiffners.
 - f) State any one process of composite production.
- 5. Attempt any FOUR of the following:** **16**
- a) Compare the method of direct marking with template.
 - b) Compare line stand and end standard.
 - c) How template can be used for marking holes.
 - d) Explain the use of angle stiffners.
 - e) Explain any one mechanical method of surface cleaning.
 - f) How vertical datum is measured by using plumb line.

6. Attempt any FOUR of the following:**16**

- a) Explain any one chemical method of surface cleaning.
 - b) State the method of flat circle for flatness testing.
 - c) How instrument panels are marked.
 - d) Explain template as a means of checking.
 - e) What is dry method of surface cleaning.
 - f) Define error. State the sources of error.
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